	Application No.	Applicant(s)	
	10/042,872	HANCOCK ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Chih-Min Kam	1653	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this applied or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS	
1. This communication is responsive to <u>1/26/04</u> .			
2. The allowed claim(s) is/are 1.			
3. \boxtimes The drawings filed on <u>08 January 2002</u> are accepted by the	e Examiner.		
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Topies of the certified copies of the priority documents have an accordance of the priority documents have a copies of the p	been received. been received in Application No		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements	
5. A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give			
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) ☐ including changes required by the Notice of Draftsperso		948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the C	office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawir ne header according to 37 CFR 1.121(c	ngs in the front (not the back) of d).	
7. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F	sit of BIOLOGICAL MATERIAL n FOR THE DEPOSIT OF BIOLOGIC	nust be submitted. Note the AL MATERIAL.	
Attachment(s)			
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application (PTO-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. X Interview Summary	(PTO-413),	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date	Paper No./Mail Dat 8), 7. ⊠ Examiner's Amendn		
4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. Examiner's Stateme	nt of Reasons for Allowance	
of Biological Material	9. 🗌 Other <i>Ch</i>	no happen 18.8. for	
		CHRISTOPHER S. F. LOW PERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1800	

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An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Examiner's Amendments to the Specification:

Please add the following paragraph after the title at page 1:

This application is a Continuation of U. S. Patent Application No. 09/604,864, filed June 27, 2000, now U. S. Patent 6,337,317.

Please replace paragraph [0022] at page 7 with the following paragraph:

In a first embodiment, the invention provides an isolated antimicrobial peptide having an amino acid sequence: WCFZ₅VCZ₂RGZ₃CRZ₂KCRR (SEQ ID NO:14),

Z₂RWCFRVCYZ₃GZ₂CZ₃Z₅Z₂CR (SEQ ID NO:15), RRWCFZ₅VCZ₃RGZ₄CYZ₄Z₄CRZ₁ (SEQ ID NO:16), RZ₅WCZ₃Z₂Z₃CYRGFCZ₃Z₂Z₅CR (SEQ ID NO:17),

RRWCZ₃RVCYZ₅GFCYRKCR (SEQ ID NO:18), and RRWCFRVCYRGZ₃FCYRKCR (SEQ ID NO:19); wherein Z_1 is a basic amino acid residue or no amino acid residue; Z_2 is a basic or aromatic residue, Z_3 is a basic amino acid residue, Z_4 is arginine, valine or alanine, and Z_5 is an aromatic or aliphatic amino acid residue.

Please replace paragraph [0037] at page 12 with the following paragraph:

The invention includes isolated polynucleotides encoding:

WCFZ₅VCZ₂RGZ₃CRZ₂KCRR (SEQ ID NO:14), Z₂RWCFRVCYZ₃GZ₂CZ₃Z₅Z₂CR (SEQ ID NO:15), RRWCFZ₅VCZ₃RGZ₄CYZ₄Z₄CRZ₁ (SEQ ID NO:16),

 $RZ_5WCZ_3Z_2Z_3CYRGFCZ_3Z_2Z_5CR$ (SEQ ID NO:17), $RRWCZ_3RVCYZ_5GFCYRKCR$ (SEQ ID NO:18), and $RRWCFRVCYRGZ_3FCYRKCR$ (SEQ ID NO:19); wherein Z_1 is a basic amino acid residue or no amino acid residue; Z_2 is a basic or aromatic residue, Z_3 is a basic amino acid residue, Z_4 is arginine, valine or alanine, and Z_5 is an aromatic or aliphatic amino acid residue.

Please replace paragraph [0047] at page 15 with the following paragraph:

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The invention also provides a method of inhibiting the growth of bacteria comprising contacting the bacteria with an inhibiting effective amount of a peptide of the invention, including WCFZ₅VCZ₂RGZ₃CRZ₂KCRR (SEQ ID NO:14), Z₂RWCFRVCYZ₃GZ₂CZ₃Z₅Z₂CR (SEQ ID NO:15), RRWCFZ₅VCZ₃RGZ₄CYZ₄Z₄CRZ₁ (SEQ ID NO:16), RZ₅WCZ₃Z₂Z₃CYRGFCZ₃Z₂Z₅CR (SEQ ID NO:17), RRWCZ₃RVCYZ₅GFCYRKCR (SEQ ID NO:18), and RRWCFRVCYRGZ₃FCYRKCR (SEQ ID NO:19); wherein Z₁ is a basic amino acid residue or no amino acid residue; Z₂ is a basic or aromatic residue, Z₃ is a basic amino acid residue, Z₄ is arginine, valine or alanine, and Z₅ is an aromatic or aliphatic amino acid residue.

Please replace TABLE 1 at pages 23-24 with the following TABLE 1:

TABLE 1

	MIC (µg/ml)			
Cells		SEQ ID NO:		
	PMI*	11	4	3
Escherichia coli UB1005	0.125	0.25	0.25	0.25
E. coli DC2	0.125	0.25	0.125	0.25
E. coli KF130	0.125	0.25	0.125	0.25
Salmonella typhimurium 14028s	0.25	0.5	0.5	0.5
Pseudomonas aeruginosa PAO1	0.25	1	1	2
P. aeruginosa H374	0.25	0.5	0.5	2
P. aeruginosa H744	0.25	1	1	2
Staphylococcus aureus ATCC 25923	0.5	1	1	1
S. aureus R147	0.5	1	1	1
S. aureus SAP0017	0.5	1	1	1
Staphylococcus epidermidis	0.25	0.25	0.5	0.5
Enterococcus facaelis	0.25	0.5	0.25	0.5
Candida albicans	1	2	4	16
Human Red Blood Cells	21.3	42.6	85	85

^{*}PMI = Plyphemusin I.

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Please replace TABLE 5 at page 32 with the following TABLE 5:

TABLE 1

		SEQ ID NO:		
PEPTIDE	PMI	11	4	3
E _{max} (nm) (HEPES)	356	356	354	353
E _{max} (nm) (POPC/POPG)	342	342	343	383
Intensity change (fold)	1.3	3.7	2.4	1.9
Accessibility to quencher KIb	-	-	-	-
E _{max} in POPC (nm)	353	354	353	350
Intensity change (fold)	-0.5	0.7	1.5	-0.7
Accessibility to quencher KI ^b	+	+	+	+

 $\overline{PMI} = Plyphemusin I.$

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chih-Min Kam whose telephone number is (571) 272-0948. The examiner can normally be reached on 8.00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Low can be reached on (571) 272-0951. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 308-4227 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

^b:-, the fluorescence of tryptophan residue could not be quenched by the aqueous quencher KI; +, the fluorescence of tryptophan residue was suppressed by the aqueous quencher KI in a concentration dependent manner.

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Chih-Min Kam, Ph. D. CMK

Patent Examiner

February 17, 2004

CHRISTOPHER S. F. LOW
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1800

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